

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P553612

Luminaire Tested: **VERD-G-CA2-160-730-U-T4-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-160-730-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1460mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19901 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

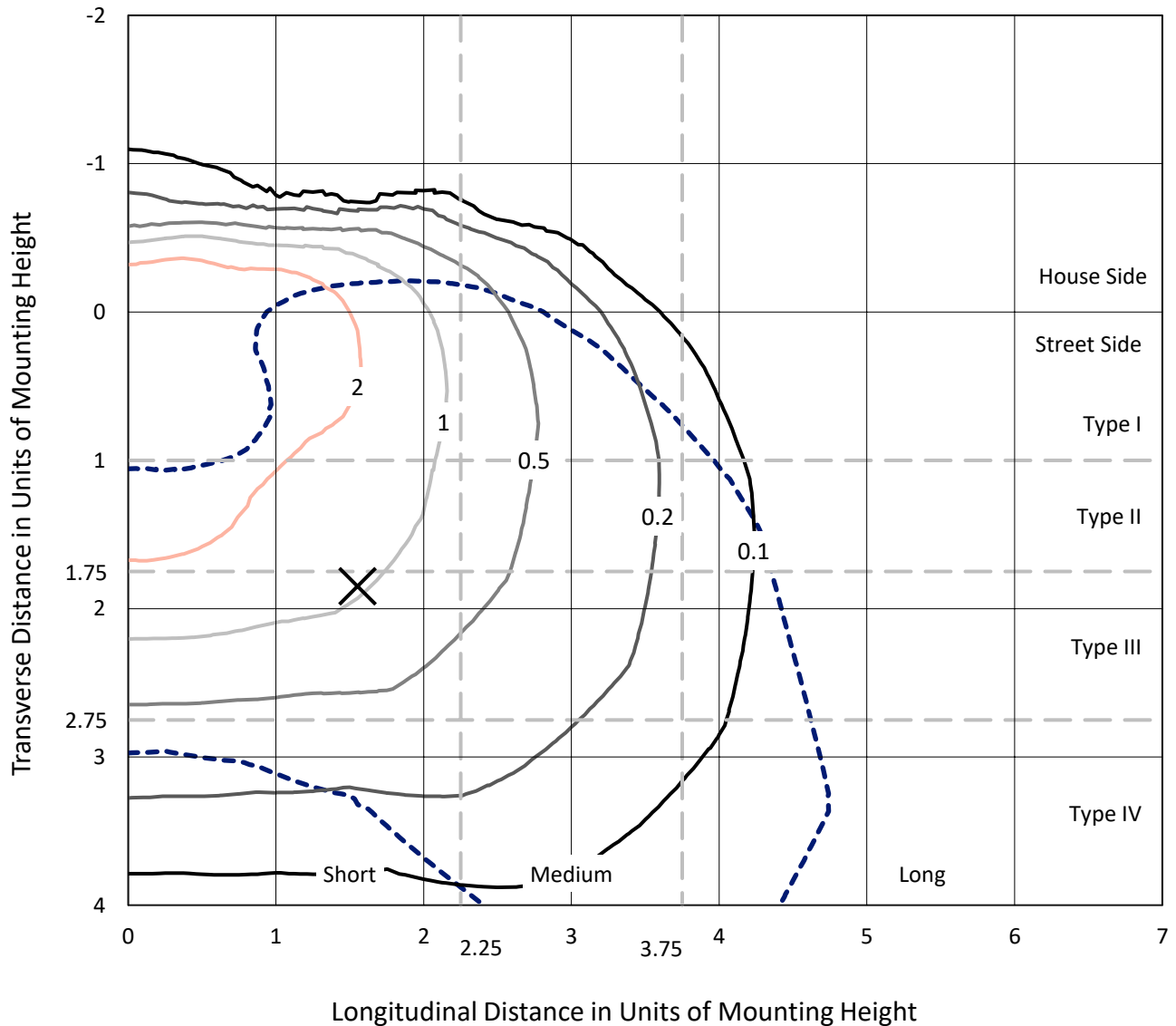
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

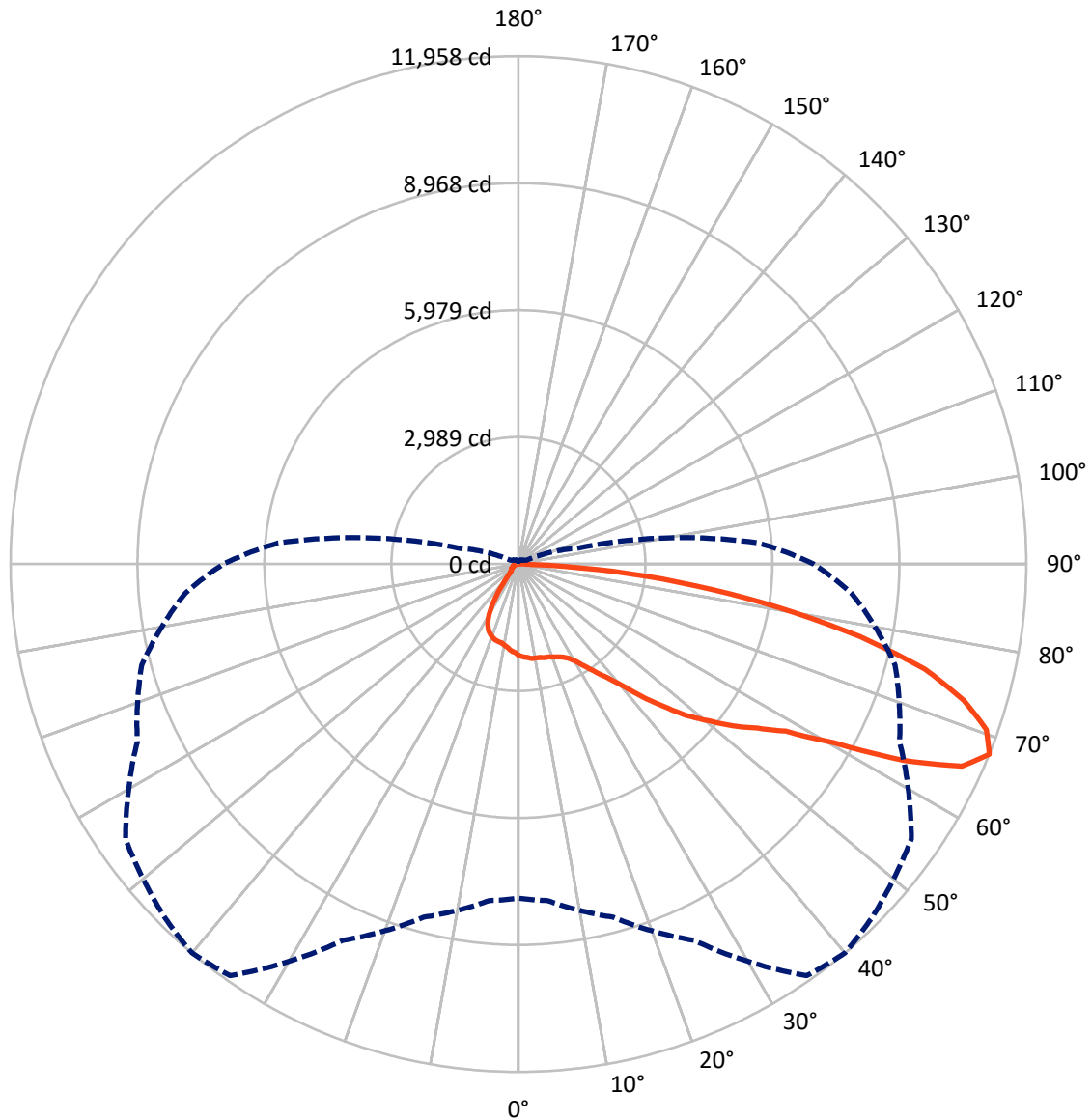
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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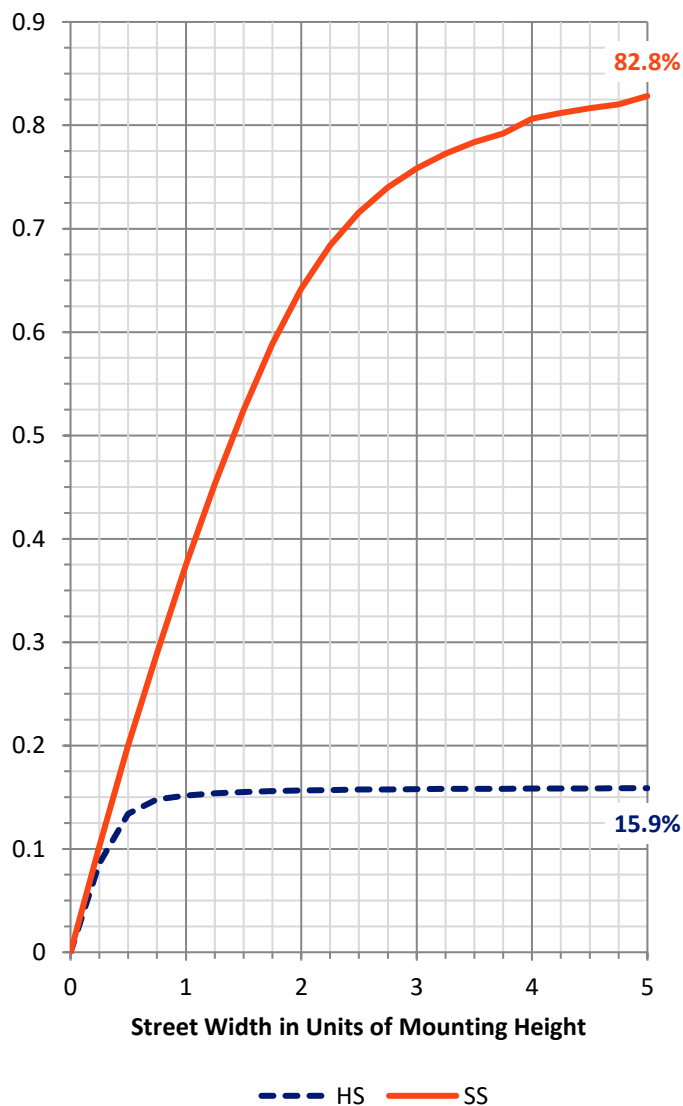
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3193.8	0.0	3193.8
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	16707.2	0.0	16707.2
	% Fixture	84.0	0.0	84.0
Total	Lumens	19901.0	0.0	19901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	1.0
10°-20°	604.7	3.0
20°-30°	1005.9	5.1
30°-40°	1581.8	7.9
40°-50°	2738.8	13.8
50°-60°	4048.4	20.3
60°-70°	5263.3	26.4
70°-80°	3767.3	18.9
80°-90°	687.0	3.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19901.0	100.0
0°-180°	19901.0	100.0

Coefficient of Utilization



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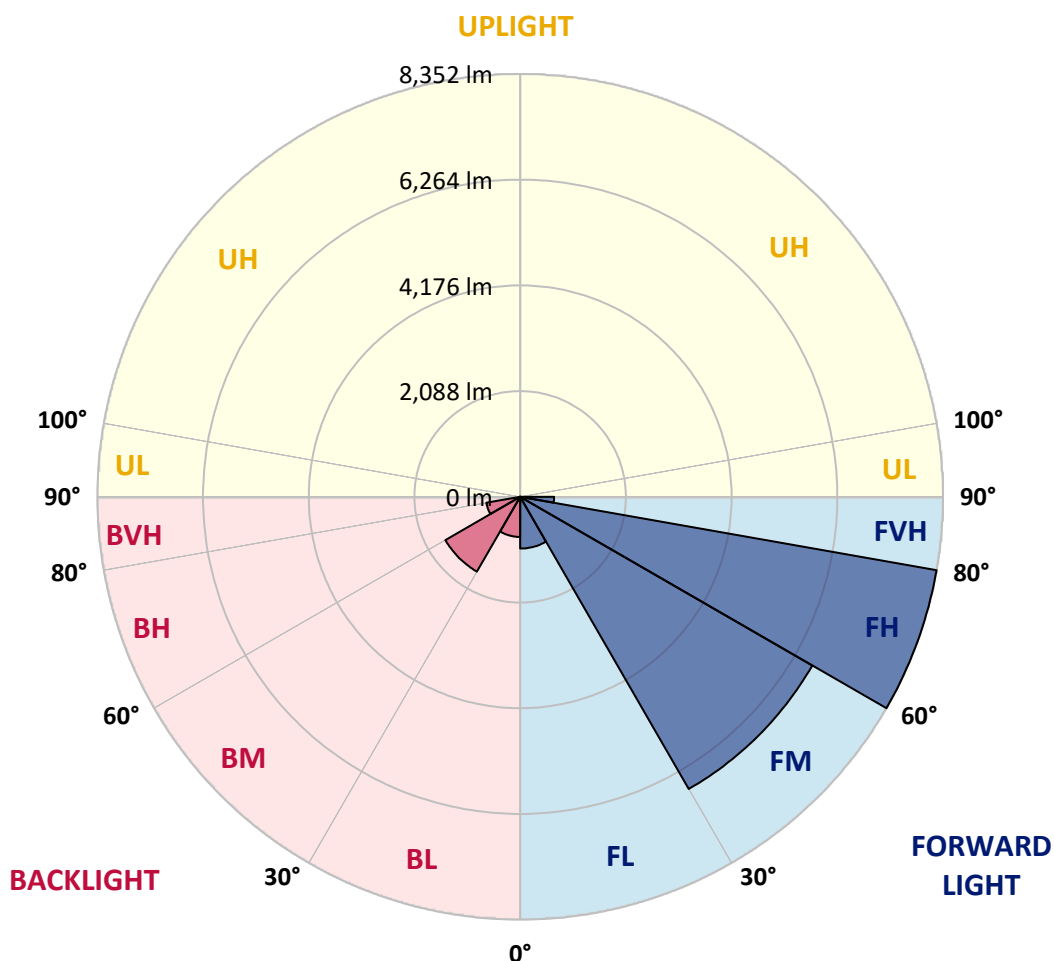
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1022.2	5.1			
FM	(30°-60°)	6663.0	33.5			
FH	(60°-80°)	8352.0	42.0			G4/12000
FVH	(80°-90°)	670.1	3.4			G4/750
BL	(0°-30°)	792.3	4.0	B2/1000		
BM	(30°-60°)	1706.0	8.6	B2/2500		
BH	(60°-80°)	678.6	3.4	B2/1000		G2/1000
BVH	(80°-90°)	16.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2
2.5°	2241.4	2239.9	2225.1	2217.7	2197.1	2189.7	2191.2	2182.3	2161.6	2164.6	2143.9
5°	2244.3	2254.7	2232.5	2226.6	2219.2	2210.4	2220.7	2208.9	2191.2	2197.1	2174.9
7.5°	2257.6	2262.1	2251.7	2245.8	2228.1	2245.8	2244.3	2234.0	2222.2	2211.8	2203.0
10°	2262.1	2257.6	2237.0	2232.5	2232.5	2250.3	2257.6	2262.1	2262.1	2245.8	2239.9
12.5°	2239.9	2237.0	2216.3	2225.1	2244.3	2256.2	2279.8	2294.6	2318.2	2300.5	2291.6
15°	2205.9	2213.3	2222.2	2225.1	2260.6	2287.2	2309.4	2336.0	2375.8	2375.8	2372.9
17.5°	2216.3	2231.0	2241.4	2256.2	2290.1	2299.0	2330.0	2372.9	2439.4	2443.8	2451.2
20°	2268.0	2268.0	2270.9	2281.3	2310.8	2337.4	2364.0	2418.7	2495.5	2520.6	2528.0
22.5°	2324.1	2321.2	2334.5	2333.0	2356.6	2374.4	2408.3	2455.6	2551.7	2598.9	2618.2
25°	2369.9	2378.8	2390.6	2375.8	2421.6	2429.0	2455.6	2513.3	2615.2	2699.4	2740.8
27.5°	2448.2	2454.2	2451.2	2458.6	2504.4	2508.8	2533.9	2616.7	2711.2	2826.5	2916.6
30°	2582.7	2562.0	2565.0	2581.2	2647.7	2656.6	2683.2	2763.0	2838.3	2990.5	3132.3
32.5°	2767.4	2767.4	2734.9	2765.9	2842.7	2866.4	2906.3	3026.0	3099.8	3181.1	3414.5
35°	3120.5	3120.5	3096.9	3015.6	3054.0	3113.1	3187.0	3352.5	3580.0	3846.0	4094.2
37.5°	3705.6	3696.7	3603.7	3457.4	3374.6	3395.3	3467.7	3735.2	4104.5	4753.2	4943.8
40°	4404.5	4379.4	4205.0	4001.1	3789.8	3754.4	3788.3	4123.7	4649.7	5611.6	5684.0
42.5°	5025.0	5023.6	4767.9	4595.1	4324.7	4265.6	4225.7	4516.8	5196.4	6235.1	6260.2
45°	5617.5	5602.7	5354.5	5166.9	4920.1	4769.4	4759.1	4963.0	5771.2	6796.6	6690.2
47.5°	6145.0	6167.1	5889.4	5709.1	5435.8	5332.4	5249.6	5424.0	6300.1	7275.3	7055.1
50°	6752.2	6792.1	6377.0	6179.0	5902.7	5800.7	5846.5	5975.1	6827.6	7666.8	7380.2
52.5°	7519.1	7392.0	6979.8	6640.0	6382.9	6332.6	6343.0	6521.8	7437.8	7987.4	7606.2
55°	8421.8	8234.2	7820.5	7290.1	6870.4	6823.2	6818.7	7000.5	8002.2	8287.4	7780.6
57.5°	8761.7	8859.2	8696.7	8305.1	7563.4	7424.5	7316.7	7485.1	8509.0	8618.3	7963.8
60°	9546.2	9651.1	9531.4	9280.3	9029.1	8545.9	8073.1	8056.9	8981.8	8934.5	8040.6
62.5°	9633.4	9599.4	10131.3	10220.0	10369.2	10181.6	9831.4	8814.9	9408.8	9095.6	8101.2
65°	9145.8	9150.2	9863.9	10351.5	11382.8	11478.8	11261.6	10020.5	9729.4	9159.1	8058.4
67.5°	7869.2	7956.4	8606.5	9775.2	11831.9	11957.5	11774.3	11292.6	9902.3	9181.3	7872.2
70°	6762.6	6765.5	7380.2	8806.0	11595.5	11690.1	11605.9	11375.4	9835.8	9005.5	7366.9
72.5°	5322.0	5305.8	5845.0	7285.6	10760.7	10961.7	10915.9	11074.0	9592.0	8370.1	6267.6
75°	3843.0	3875.5	4422.2	5611.6	9256.6	9880.1	10101.8	10583.4	8723.2	7108.3	4595.1
77.5°	2690.6	2723.1	3247.6	4262.6	7470.3	8222.4	8578.5	9001.0	7069.9	5268.8	2355.2
80°	1759.7	1789.3	2239.9	3201.8	5568.8	6210.0	6477.4	6224.8	4151.8	2213.3	258.6
82.5°	1022.4	1080.1	1422.8	2197.1	3902.1	4206.5	4221.3	3275.7	1551.4	198.0	121.2
85°	497.9	534.9	851.0	1303.2	2135.0	2244.3	2081.8	1218.9	362.0	94.6	69.4
87.5°	73.9	97.5	335.4	492.0	362.0	297.0	178.8	41.4	23.6	11.8	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2	2154.2
2.5°	2132.1	2130.6	2135.0	2115.8	2117.3	2093.6	2084.8	2080.3	2101.0	2098.1	2112.8
5°	2158.6	2143.9	2142.4	2095.1	2090.7	2061.1	2043.4	2016.8	2037.5	2033.1	2033.1
7.5°	2174.9	2160.1	2151.3	2095.1	2056.7	2005.0	1975.4	1954.8	1953.3	1948.8	1950.3
10°	2201.5	2194.1	2146.8	2084.8	2033.1	1966.6	1910.4	1877.9	1863.1	1864.6	1854.3
12.5°	2260.6	2245.8	2182.3	2108.4	2025.7	1934.1	1861.7	1804.0	1774.5	1768.6	1752.3
15°	2344.8	2328.6	2248.8	2164.6	2044.9	1937.0	1829.2	1727.2	1677.0	1656.3	1641.5
17.5°	2443.8	2418.7	2327.1	2231.0	2084.8	1934.1	1798.1	1660.7	1564.7	1510.0	1505.6
20°	2522.1	2510.3	2405.4	2302.0	2109.9	1914.9	1746.4	1564.7	1421.4	1320.9	1300.2
22.5°	2625.5	2627.0	2510.3	2355.2	2130.6	1882.4	1665.2	1430.2	1235.2	1100.7	1077.1
25°	2774.8	2752.6	2621.1	2398.0	2135.0	1845.4	1554.3	1261.8	1007.7	857.0	830.4
27.5°	2953.6	2921.0	2711.2	2420.2	2115.8	1771.5	1406.6	1041.6	744.7	614.6	594.0
30°	3142.7	3065.8	2785.1	2429.0	2056.7	1651.9	1196.8	760.9	527.5	435.9	427.0
32.5°	3385.0	3272.7	2848.6	2399.5	1966.6	1470.1	927.9	521.6	364.9	316.2	319.1
35°	3881.4	3606.6	2947.6	2367.0	1839.5	1242.6	648.6	345.7	282.2	276.3	277.8
37.5°	4632.0	4196.1	3122.0	2319.7	1650.4	950.0	416.7	267.4	268.9	268.9	268.9
40°	5357.5	4840.3	3389.4	2226.6	1418.4	664.9	274.8	252.7	260.0	258.6	260.0
42.5°	5874.6	5319.1	3670.1	2112.8	1151.0	421.1	246.7	237.9	242.3	240.8	245.3
45°	6294.2	5729.8	3925.8	1951.8	861.4	274.8	242.3	226.1	221.6	220.1	224.6
47.5°	6604.5	6000.2	4109.0	1750.9	574.8	236.4	232.0	208.3	202.4	202.4	203.9
50°	6905.9	6260.2	4163.6	1521.8	354.6	230.5	218.7	193.6	184.7	181.7	184.7
52.5°	7115.7	6348.9	4175.5	1263.3	237.9	224.6	202.4	175.8	165.5	164.0	165.5
55°	7294.5	6530.6	4079.4	941.2	212.8	211.3	187.6	158.1	146.3	152.2	155.1
57.5°	7338.8	6548.3	3887.3	622.0	211.3	193.6	171.4	141.8	133.0	138.9	140.4
60°	7451.1	6475.9	3648.0	382.7	206.9	172.9	152.2	125.6	119.7	121.2	124.1
62.5°	7355.1	6436.1	3238.7	267.4	190.6	158.1	141.8	115.2	104.9	103.4	103.4
65°	7257.6	6201.1	2476.3	221.6	169.9	147.8	128.5	101.9	90.1	84.2	84.2
67.5°	6947.3	5675.1	1414.0	205.4	153.7	135.9	116.7	93.1	78.3	70.9	68.0
70°	6165.7	4546.3	435.9	187.6	155.1	127.1	107.9	81.3	68.0	57.6	56.1
72.5°	4828.5	2842.7	203.9	165.5	159.6	118.2	100.5	75.4	60.6	48.8	47.3
75°	2841.3	681.1	167.0	122.6	135.9	125.6	99.0	72.4	53.2	39.9	38.4
77.5°	617.6	165.5	149.2	82.7	101.9	121.2	94.6	63.5	47.3	31.0	29.6
80°	149.2	130.0	135.9	63.5	68.0	84.2	76.8	54.7	42.8	25.1	23.6
82.5°	100.5	97.5	119.7	39.9	34.0	31.0	32.5	34.0	35.5	19.2	17.7
85°	66.5	84.2	63.5	22.2	19.2	16.3	16.3	14.8	20.7	11.8	11.8
87.5°	10.3	8.9	10.3	8.9	8.9	7.4	5.9	5.9	4.4	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)